Aviation Weather Information Workshop

NASA Aviation Safety and Security Program

Weather Accident Prevention Project Review

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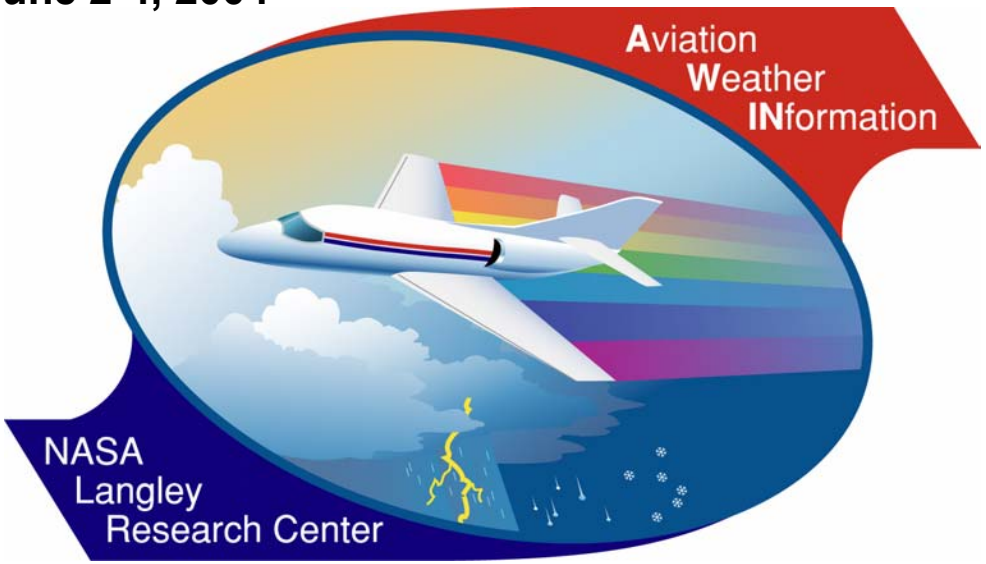

AWIN Workshop

QuickTime™ and a TIFF (Uncompressed) decompressor are needed to see this picture.

Aviation Weather Information

1. Presentations from participants

2. Comments regarding AWIN
   - Things we have done
   - Things we are doing
   - Things we haven't done

- Overview
- ASAP
- TAMDAR
- General Aviation Cockpit Presentation
- Transport Cockpit Presentation

3. Other

General

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Aviation Weather Information

- No major criticism of AWIN R&D
  - –Completed
  - –Underway
  - –Planned

- Support for continued AWIN R&D
  - –ASAP
  - –TAMDAR
  - –Presentation
  - –Decision aiding

ASAP & Weather Products

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Aviation Weather Information

Need to

- **Understand limitations of satellite data for icing**
- **Improve 1 to 6 hour forecasts**
- **Coordinate information between ATC, cockpit, and dispatchers**
- **Consider CWIS (Corridor Weather Integrated System) and ITWS (Integrated Terminal Weather Service) for cockpit use**

TAMDAR

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Aviation Weather Information

Need to

- **Assess impact on icing forecasts**
- **Establish cockpit presentation requirements**
- **Enable access to and availability of data**
- **Optimize airborne weather report collection**
- **Use UAVs to collect in situ data where people don't want to fly**

Cockpit Display

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Aviation Weather Information

Need to

- **Provide roadmap showing desired end state**
- **Develop vision for future display**
- **Coordinate safety and capacity display requirements**
- **Consider liability issues, especially for decision aiding**
- **Provide pilot-configurable displays and means for "home" familiarization**
- **Provide better information and faster**
- **Extend NEXRAD resolution study to determine when the observed trend breaks down**
- **Address uncertainty of data and effect on pilot trust**
- **Continue presentation research**